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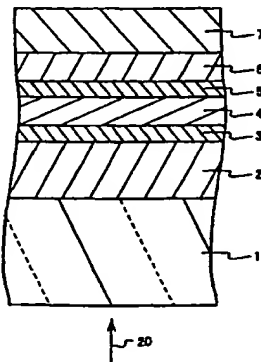
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(54) Title: OPTICAL INFORMATION RECORDING MEDIUM, METHOD OF RECORDING AND REPRODUCING, AND OPTICAL RECORDING AND REPRODUCING SYSTEM

(54) 発明の名称: 光学情報記録媒体とその記録再生方法、およびこれを用いた光学情報の記録再生システム



(57) Abstract: At least one information layer including a recording layer with a base material that has two alternative optical states variable with exposure to a laser beam is formed on a substrate. The energy gap of this material is 0.9 to 2.0 eV in amorphous state. The transmissivity of the information layer is greater than 30% when irradiated with a laser beam whose wavelength falls within a range of 300 to 450 nm. The irradiation of one side of this medium with a laser beam within such a wavelength range allows information to be recorded on a plurality of record layers or reproduced from them.

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## ABSTRACT

At least one information layer including a recording layer contains a material that can exhibit a transition between two optically different states in response to irradiation with a laser beam as a main component is provided on a substrate, and the material is configured so as to exhibit an energy gap ranging from 0.9 eV to 2.0 eV in the amorphous state. The information layer is configured to have a light transmittance of not less than 30 % when irradiated with a laser beam having a wavelength ranging from 300 nm to 450 nm. It is possible to achieve excellent recording/reproduction, even if a plurality of recording layers are provided in the recording medium, when this medium is irradiated with a laser beam with a wavelength in the foregoing range from one side of the medium.

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